MODELING STATES AND/OR TRANSITION IN A COMPUTER SYSTEM

ABSTRACT OF THE DISCLOSURE

Embodiments of the present invention provide a system and method of modeling a computer system. The computer system is modeled by a plurality of components and a plurality of interface enabling interactions between the components. A searchable tree data structure defining the components and the interactions between the components is generated . The method of modeling the computer system further comprises qualifying the searchable tree data structure as defining valid combination of the components.